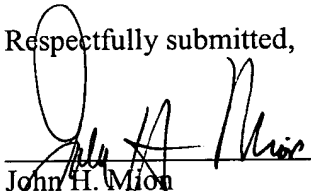


8. Method according to claim 1, characterised in that the surface capacitance of each cell is calculated according to the formula  $C_{max\_charge} = \frac{(\alpha T + \beta) \cdot S}{I_{charge}}$  where  $\alpha$  is equal to  $0.01 \frac{mA^2}{Kcm^4}$  and  $\beta$  is between  $3.3 \frac{mA^2}{cm^4}$  and  $3.2 \frac{mA^2}{cm^4}$ , and preferably between  $3.24 \frac{mA^2}{cm^4}$  and  $3.26 \frac{mA^2}{cm^4}$ , and S is the surface of each cell expressed in  $cm^2$  and  $I_{charge}$  is the charging current according to the formula of claim 7, and in that the charging time is between 5 and 15 hours, preferably between 7 and 10 hours.
9. Method according to claim 1, characterised in that before one cell has reached the threshold voltage and while the voltage difference between this cell and a cell which has a voltage of minimum charge is greater than a predetermined value, a part of the charging current of this cell is shunted.
10. Method according to claim 1, characterised in that said voltage difference is between 10 mV and 200 mV.
11. Device for charging several electrochemical cells (5, 6, 7), in particular Lithium-Polymer cells, connected in series to a charger (1) which allows adjusting the voltage and the charging current, for implementing the method according to claim 1, said device comprising means (21, 22, 23) for detecting the voltage in each cell, means (15, 16, 17) for shunting the current of each cell, means (12, 13, 14) for connecting the shunting means to each cell (5, 6, 7), characterised in that it further comprises means (18, 19, 20), for comparing the voltage of each cell with a threshold voltage, means (24) for applying an increment to the charging current of the said several cells (5, 6, 7) when the voltage in one of the said several cells (5, 6, 7) reaches a threshold voltage and means (15, 16, 17) for shunting a part of the current equivalent to the increment.
13. Device according to claim 11, characterised in that the control unit (24) further comprises means for comparing the outputs of temperature sensors (25, 26, 27) of each cell (5, 6, 7) to a threshold temperature.

### REMARKS

Entry and consideration of this Amendment is respectfully requested to eliminate multiple dependent claims.

Respectfully submitted,

  
 John H. Mion  
 Registration No. 18,879

SUGHRUE MION, PLLC  
 2100 Pennsylvania Avenue, N.W.  
 Washington, D.C. 20037-3213  
 Telephone: (202) 293-7060  
 Facsimile: (202) 293-7860  
 JHM/plr  
 Date: January 11, 2002